

## DESCRIPTION

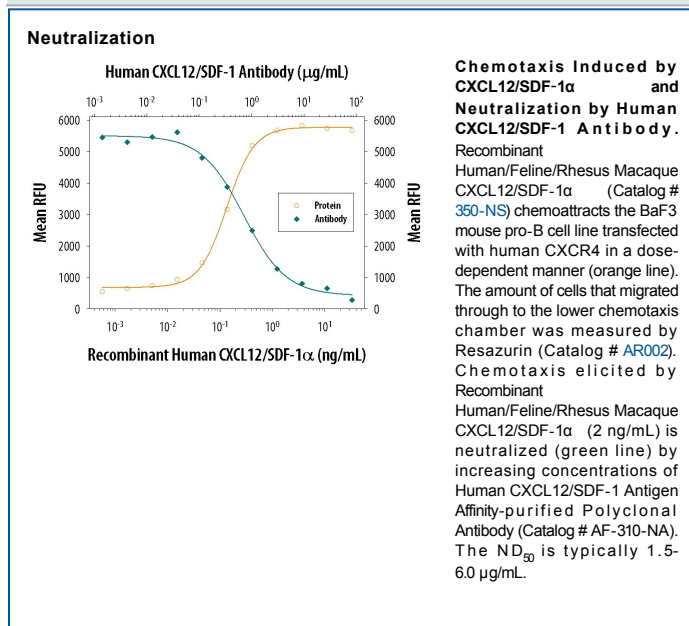
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CXCL12/SDF-1 in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CXCL12/SDF-1 $\alpha$ Lys22-Lys89 Accession # Q6ICW0
<b>Endotoxin Level</b>	<0.10 EU per 1 $\mu$ g of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 $\mu$ g/mL	Recombinant Human/Feline CXCL12/SDF-1 $\beta$ aa 19-93 (Catalog # 2716-SD) Recombinant Human/Feline CXCL12/SDF-1 $\beta$ aa 22-93 (Catalog # 351-FS) Recombinant Human/Feline/Rhesus Macaque CXCL12/SDF-1 $\alpha$ (Catalog # 350-NS)
<b>Neutralization</b>		Measured by its ability to neutralize CXCL12/SDF-1 $\alpha$ -induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR4. The Neutralization Dose (ND <sub>50</sub> ) is typically 1.5-6.0 $\mu$ g/mL in the presence of 2 ng/mL Recombinant Human/Feline/Rhesus Macaque CXCL12/SDF-1 $\alpha$ .

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month from date of receipt, 2 to 8 °C, reconstituted.</li> <li>● 6 months from date of receipt, -20 to -70 °C, reconstituted.</li> </ul>

## BACKGROUND

CXCL12, also known as SDF-1 (stromal cell-derived factor 1) and PBSF (Pre-B cell growth stimulatory factor), is a member of the CXC chemokine superfamily. Two alternatively spliced mRNAs encode CXCL12 $\alpha$  (89 aa residues) and CXCL12 $\beta$  (93 aa residues) that differ by the addition of 4 amino acids at the carboxy-terminus. Human and mouse CXCL12 are highly conserved. Mature human and mouse CXCL12 differ only by 1 amino acid.